Polymer Degradation and Stability **31** (1991) 381–383

CONTENTS OF VOLUME 31

Number 1

The Photo-degradation of PVC: Part II—Structural Changes in PVC Chains . 1
LI JIAN, ZHOU DAFEI & ZHAO DEREN (People's Republic of China)

Performance of Treated Hybrid Fiber-reinforced Thermoplastic Composites under Extreme Conditions: Part I—Use of Mica and Wood Pulp as Hybrid Fiber . 9
D. MALDAS & B. V. KOKTA (Canada)

The Solubility of Stabilizing Additives in Polypropylene 23
N. C. BILLINGHAM, P. D. CALVERT, I. W. OKOPI & A. UZUNER (UK)

Structural Changes Associated with Thermal and Chemical Treatment of Polythiophenes Doped with Perchlorate 37
K. G. NEOH, E. T. KANG & K. L. TAN (Singapore)

Studies of the Morphological Features of Polymer Blends by Property Measurements 51
FENGFEI XIAO, LIANGHE SHI & MAO XU (People's Republic of China)

Solubility of Additives in Aliphatic Polyamides: The Role of the Surrounding Medium 61
A. P. MAR'IN, I. A. SHLYAPNIKOVA, G. E. ZAIKOV & YU. A. SHLYAPNIKOV (USSR)

Degradation of Hydrogenated Nitrile Rubber 71
SUSMITA BHATTACHARJEE, ANIL K. BHOWMICK & B. N. AVASTHI (India)

Influence of Fillers on the Deformation Behaviour of Crosslinked HDPE: Part I—Chemical Crosslinking 89
M. NIKOLOVA & M. MATEEV (Bulgaria)

Ageing and Degradation of Poly(ethylene terephthalate) in an Oxygen Plasma . 97
JÖRG FRIEDRICH, INGRID LOESCHCKE, HORST FROMMELT, HANS-DIETER REINER, HEINZ ZIMMERMANN (Germany) & PIERRE LUTGEN (Luxembourg)

Polymer Degradation and Stability **(31)** (1991)—© 1991 Elsevier Science Publishers Ltd, England. Printed in Great Britain

Thermal Degradation Studies of Some New Coordination Polymers . . . 115
A. S. ASWAR & N. S. BHAVE (India)

Book Reviews 125

Announcement 127

Number 2

An Investigation of the Flame Retardation Mechanism of Polypropylene-Containing a Chlorine Flame Retardant System by XPS(ESCA). . . . 129
WANG JIANQI, FENG DAMING, WU WENHUI, ZENG MINXIU & LI YI (People's Republic of China)

Determination of Stabilizer Concentrations in Polyethylene 141
FREDERIC C. SCHILLING & VALERIE J. KUCK (USA)

Radiophotoluminescence of Irradiated Poly(methyl methacrylate) Doped with Some Charge Transfer Complexes 153
A. A. SHABAKA, B. A. HENAISH & A. M. EL AGRAMY (Egypt)

Degradation Studies of Some Polyesters and Polycarbonates—8. Bisphenol A Polycarbonate 163
I. C. McNEILL & A. RINCON (UK)

Loss of Additives from Polyethylene under Natural Conditions 181
A. P. MAR'IN & YU. A. SHLYAPNIKOV (USSR)

Cyanoguanidine and its Complexes as Thermal Stabilizers for Rigid Poly(vinyl chloride) 189
AHMADY A. YASSIN, MAGDY W. SABAA & ABIR S. ABDEL-NABY (Egypt)

Influence of Fillers on the Deformation Behaviour of Crosslinked HDPE: Part II—Radiation Crosslinking. 203
M. NIKOLOVA & M. MATEEV (Bulgaria)

An XPS Investigation of the Radiation Induced Degradation Reactions of Cellulose Nitrate: Part 1—Argon Plasma Induced Surface Reactions . . . 211
R. D. SHORT, H. S MUNRO, R. J. WARD, I. McBRIAR (UK), H. S. O. CHAN & K. L. TAN (Singapore)

Organophosphorus Antioxidants: Part X—Mechanism of Antioxidant Action of Aryl Phosphites and Phosphonites at Higher Temperatures. 219
K. SCHWETLICK, J. PIONTECK, A. WINKLER, U. HÄHNER, H. KROSCHWITZ & W. D. HABICHER (Germany)

Further Studies on the Thermal Decomposition Processes in Polycarbonates . 229
GIORGIO MONTAUDO, CONCETTO PUGLISI,
ROBERTO RAPISARDI & FILIPPO SAMPERI (Italy)

Diffusion–Activation Laws for Drug Release from Polymer Matrices . . . 247
A. YA. POLISHCHUK, L. A. ZIMINA, R. YU. KOSENKO,
A. L. IORDANSKII & G. E. ZAIKOV (USSR)

Number 3

The Oxidative Degradation of Ethylene/Vinyl Alcohol Copolymers . . . 255
D. J. CARLSSON, S. CHMELA & D. M. WILES (Canada)

Photooxidation of Poly(styrene-co-maleic anhydride) Using a QUVB-313 Light Source 269
KELVYN A. HOLLAND, HANS J. GRIESSER,
D. GEOFF HAWTHORNE & JONATHAN H. HODGKIN (Australia)

Chemical Reactions which Occur in the Thermal Treatment of Polycarbonate/Polyethyleneterephthalate Blends, Investigated by Direct Pyrolysis Mass Spectrometry 291
GIORGIO MONTAUDO, CONCETTO PUGLISI &
FILIPPO SAMPERI (Italy)

Infrared Spectroscopic Study of γ-Irradiated Cotton Linters 327
A. A. SHABAKA, A. M. EL-AGRAMY & A. M. A. NADA (Egypt)

Comments on the Electrochemical Ageing Compensation Effect 335
L. AUDOUIN & J. VERDU (France)

Absorption Spectra of CR^{3+} in Poly(vinyl Alcohol) 347
A. M. HASHAD, A. ABDEL RAZIK &
AFKAR K. ABDEL HADI (Egypt)

Effect of Structure of Polymeric Hindered Amines on the Oxidation of Polymers: Part 1—Syntheses of Polymeric Hindered Piperidyl Esters 353
LIANG WENZHONG (People's Republic of China)

Accelerated Thermal Aging of Glass-Reinforced Epoxy Resin Under Oxygen Pressure 365
S. CIUTACU, P. BUDRUGEAC & I. NICULAE (Romania)

Detection of a Tris(alpha-methylbenzylphenyl)phosphite Antioxidant . . . 373
J. ROTSCHOVÁ, J. STRNADOVÁ, J. VIRT &
J. POSPÍŠIL (Czechoslovakia)